

DOCKET NO.: IBIS0002-100 (IBIS-0368)

PATENT

In the Claims:

The current status of all claims is listed below and supercedes all previous lists of claims.
Please cancel claims 17-25 and add new claims 36-50.

Claims 1-35 (cancelled).

Claim 36 (New) A service for providing characterizing information about a bioagent, comprising:

- a) providing a database of base composition signatures indexed to molecular masses of known bioagents;
- b) interrogating the database with an identification query comprising a measured molecular mass of a bioagent; and
- c) delivering a response generated by said database, wherein said response provides characterizing information for said bioagent.

Claim 37 (New) The service of claim 36 wherein said bioagent of interest is a bacterium.

Claim 38 (New) The service of claim 36 wherein said bioagent of interest is a member of the coronaviridae family.

Claim 39 (New) The service of claim 36 wherein said database is a master database.

Claim 40 (New) The service of claim 39 wherein said master database is dimensional.

Claim 41 (New) The service of claim 36 wherein said measured molecular mass is obtained with high resolution mass spectrometry.

Claim 42 (New) The service of claim 36 wherein said measured molecular mass is of an amplification product comprising a variable region flanked by a pair of highly conserved regions.

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Claim 43 (New) The service of claim 42 wherein said amplification product is obtained by the polymerase chain reaction.

Claim 44 (New) The service of claim 36 wherein said response is delivered via a network.

Claim 45 (New) The service of claim 44 wherein said network is a local area network, a wide area network, or the internet.

Claim 46 (New) The service of claim 36 wherein said characterizing information comprises a genus name, a species name or a strain name.

Claim 47 (New) The service of claim 36 wherein said characterizing information comprises a toxin gene, a pathogenicity island, or an antibiotic resistance gene.

Claim 48 (New) The service of claim 42 wherein said variable region exhibits no greater than about 5% identity among species.

Claim 49 (New) The service of claim 42 wherein said variable region is between about 50-250 nucleotides.

Claim 50 (New) The service of claim 42 wherein said highly conserved regions exhibit about 95% identity among species.